

Title (en)
METHOD AND APPARATUS FOR DISRUPTION OF BIOLOGICAL MATERIAL

Title (de)
VERFAHREN UND VORRICHTUNG ZUR AUFLÖSUNG DES BIOLOGISCHEN MATERIALS

Title (fr)
PROCEDE ET APPAREIL POUR LA DESAGREGATION DE MATIERE BIOLOGIQUE

Publication
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Application
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Priority

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Abstract (en)
[origin: WO9854987A1] A method of disrupting biological material includes drying particulate material, mixing the material with a gas under pressure, releasing the pressure explosively and collecting the resultant product. The biological starting material is any particulate material and includes: cells with membranes, cells with rigid cell walls, non-cellular biological material, intra-cellular material, and unbounded homogenous material. Apparatus for batch, semi-continuous and continuous operation of the method is provided. Included is a chamber (2, 12) with at least one inlet valve (6, 21) and at least one outlet valve (7, 23) and collection means (18). The chamber (2, 12) is capable of withstanding at least 800 bar, preferably 30 bar pressure. The particle size of the starting material is in the range of 0.1 to 2000 μm and of the resultant product, less than 2 μm .

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CPC (source: EP US)
C12N 1/06 (2013.01 - EP US); **G01N 1/286** (2013.01 - EP US)

Citation (search report)

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